FIG. 1

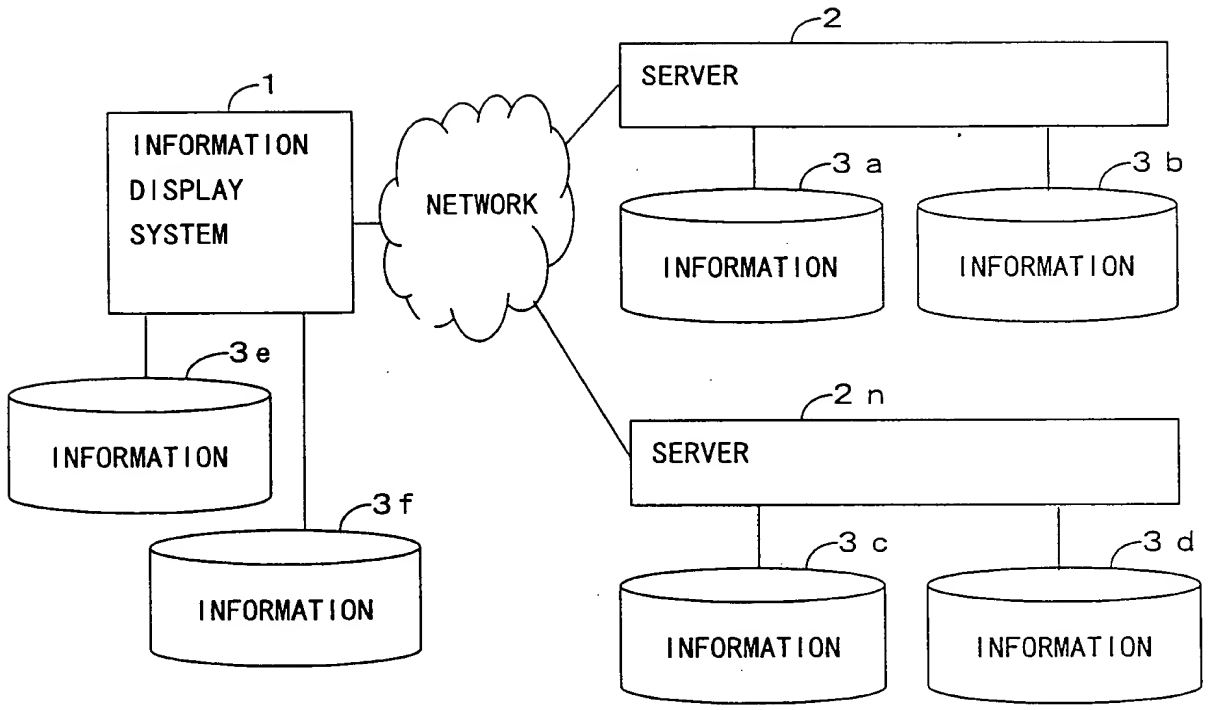

1
INFORMATION
DISPLAY
SYSTEM
NETWORK
2
SERVER
3 a
INFORMATION
3 b
INFORMATION
3 e
INFORMATION
3 f
INFORMATION
2 n
SERVER
3 c
INFORMATION
3 d
INFORMATION

FIG.2

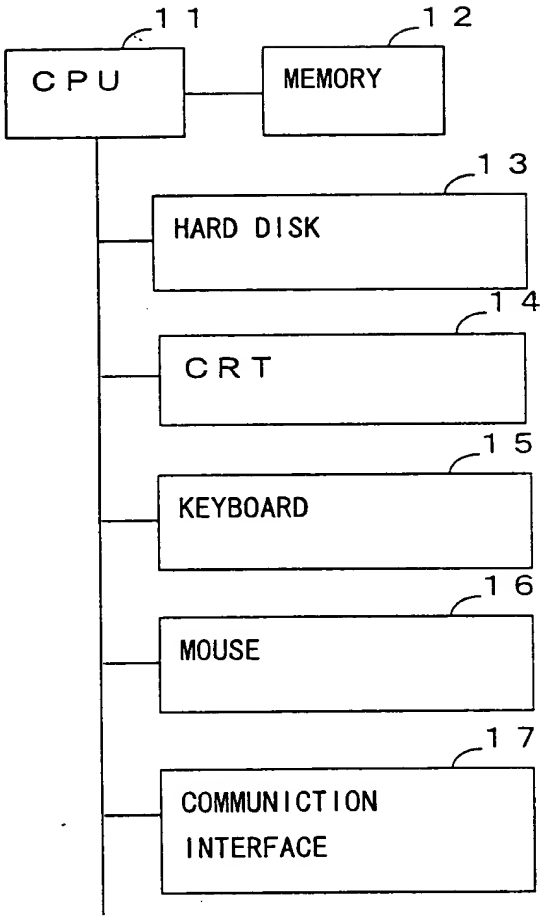
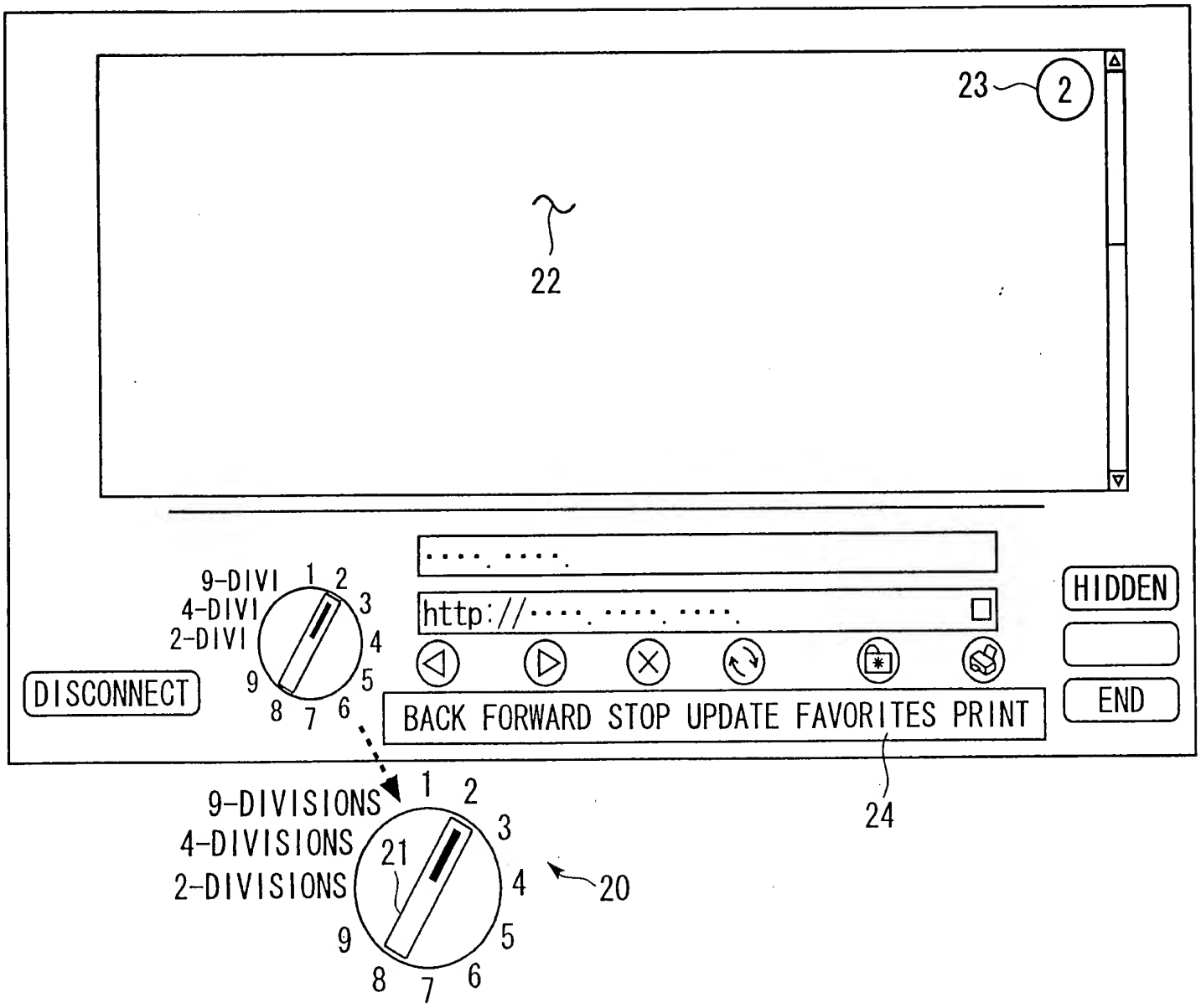

11
CPU
12
MEMORY
13
HARD DISK
14
CRT
15
KEYBOARD
16
MOUSE
17
COMMUNICTION
INTERFACE

FIG.3

ENTRY NUMBER (CHANNEL NUMBER)	URL
1	http://www.xxxxxx1.co.jp
2	http://www.xxxxxx2.co.jp
3	http://www.xxxxxx3.co.jp
:	:
:	:
9	http://www.xxxxxx9.co.jp

EP 1 746 750 A2

FIG. 4


23
2
22
9-DIVI
4-DIVI
2-DIVI
1
2
3
4
5
6
7
8
9
DISCONNECT
http://
HIDDEN
END
BACK FORWARD STOP UPDATE FAVORITES PRINT
24
9-DIVISIONS
4-DIVISIONS
2-DIVISIONS
21
20

FOREIGN PATENT

FIG. 5

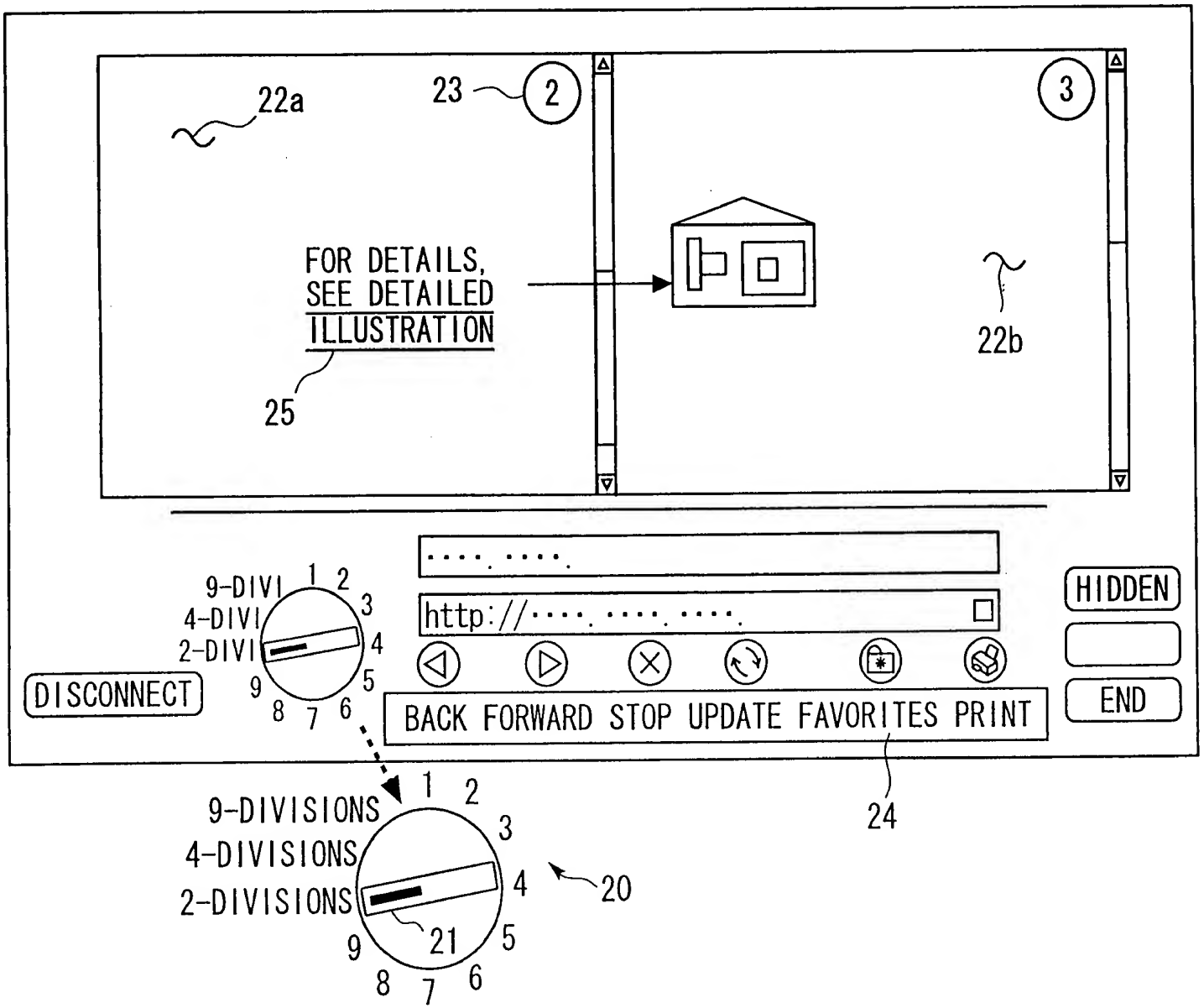


FIG. 6

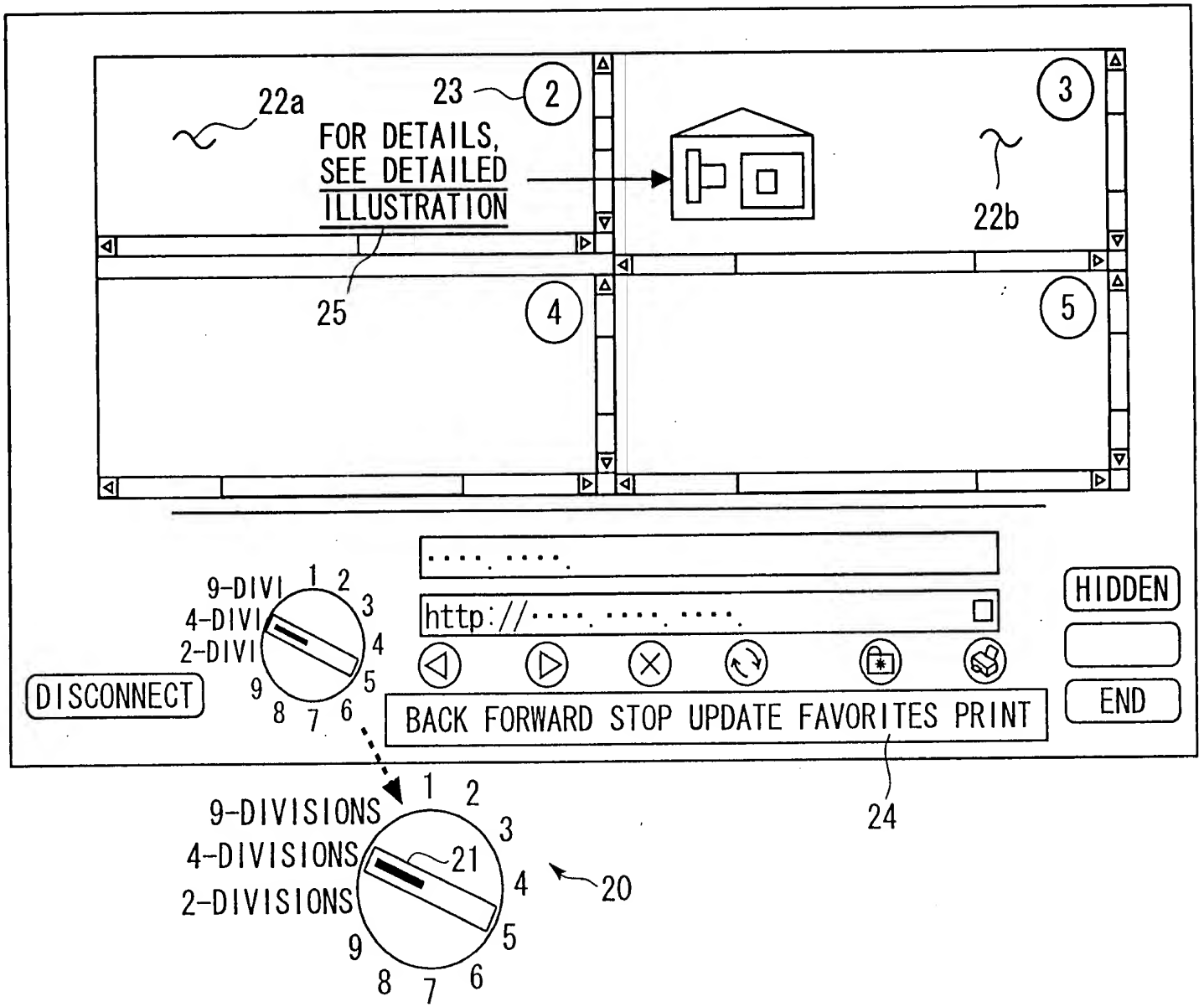

22a
23
2
FOR DETAILS,
SEE DETAILED
ILLUSTRATION
3
22b
25
4
5
9-DIVI
4-DIVI
2-DIVI
1
2
3
4
5
6
7
8
9
DISCONNECT
http://
HIDDEN
END
BACK FORWARD STOP UPDATE FAVORITES PRINT
24
9-DIVISIONS
4-DIVISIONS
2-DIVISIONS
21
20

FIG. 7

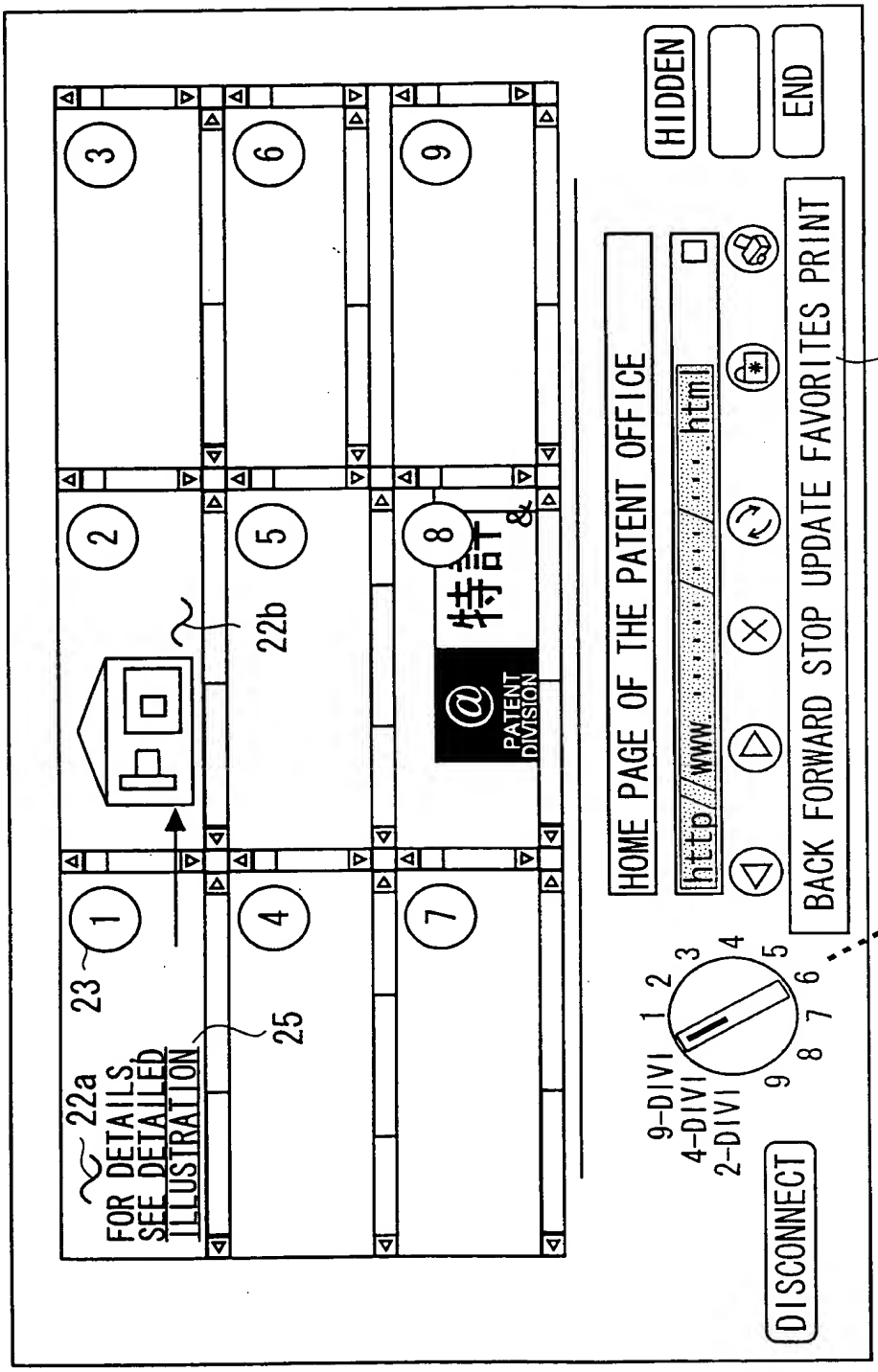

1
2
3
4
5
6
7
8
9
23
22a
FOR DETAILS, SEE DETAILED ILLUSTRATION
22b
25
@ PATENT DIVISION
特許
HOME PAGE OF THE PATENT OFFICE
http://www...../...../...htm
HIDDEN
END
BACK FORWARD STOP UPDATE FAVORITES PRINT
24
DISCONNECT
9-DIVI
4-DIVI
2-DIVI
9-DIVISIONS
4-DIVISIONS
2-DIVISIONS
20
21

FIG.8

ENTRY NUMBER	HISTORY NUMBER	URL
1	1	http://www.xxxxxx1.co.jp
2	4	http://www.xxxxxx4.co.jp
3	2	http://www.xxxxxx2.co.jp
:	:	:
:	:	:
9	3	http://www.xxxxxx3.co.jp

EPO - DG 1 - 20.06.2003 09:31:50

FIG. 9

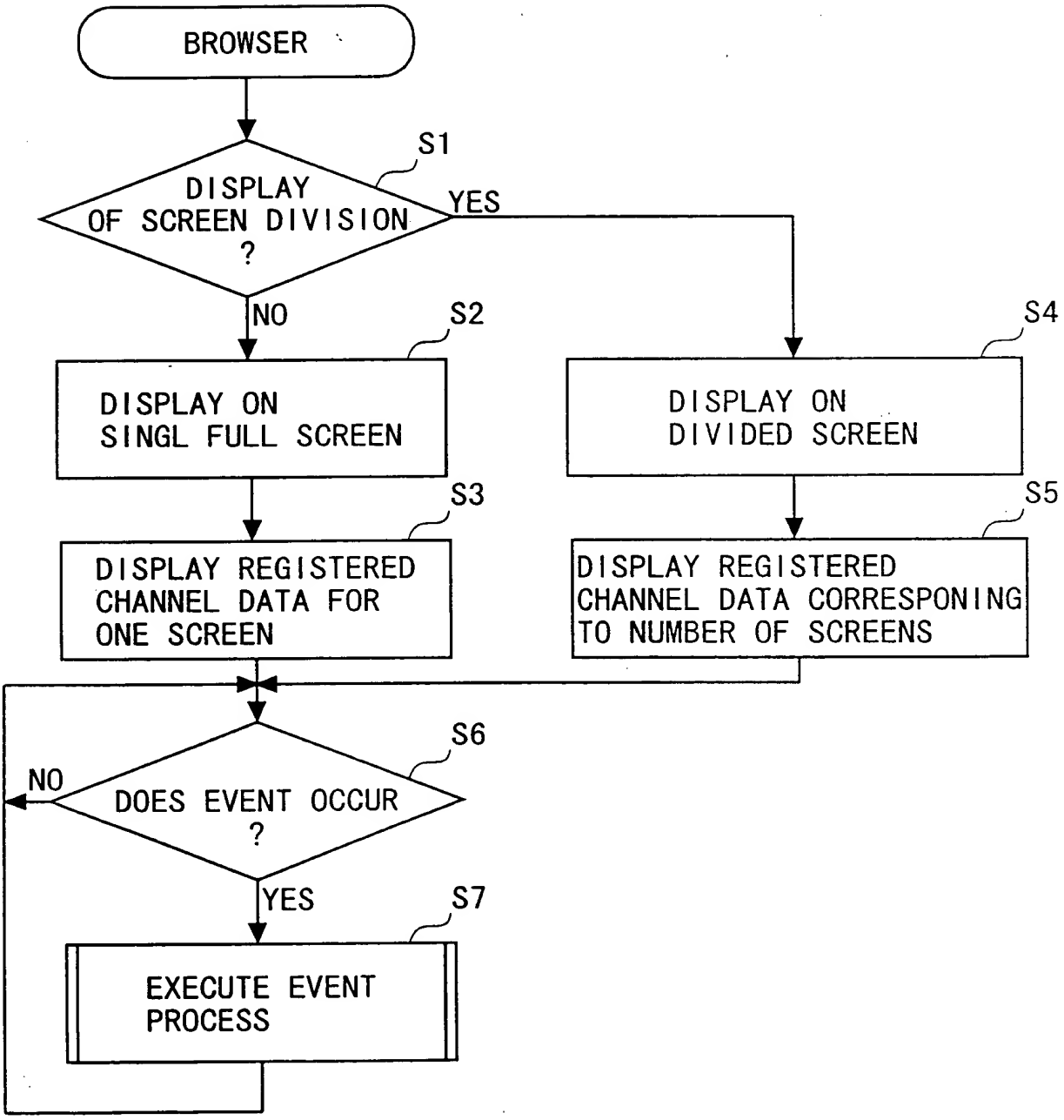

BROWSER
S1
DISPLAY OF SCREEN DIVISION ?
YES
NO
S2
DISPLAY ON SINGL FULL SCREEN
S3
DISPLAY REGISTERED CHANNEL DATA FOR ONE SCREEN
S4
DISPLAY ON DIVIDED SCREEN
S5
DISPLAY REGISTERED CHANNEL DATA CORRESPONING TO NUMBER OF SCREENS
S6
NO
DOES EVENT OCCUR ?
YES
S7
EXECUTE EVENT PROCESS

FIG. 10

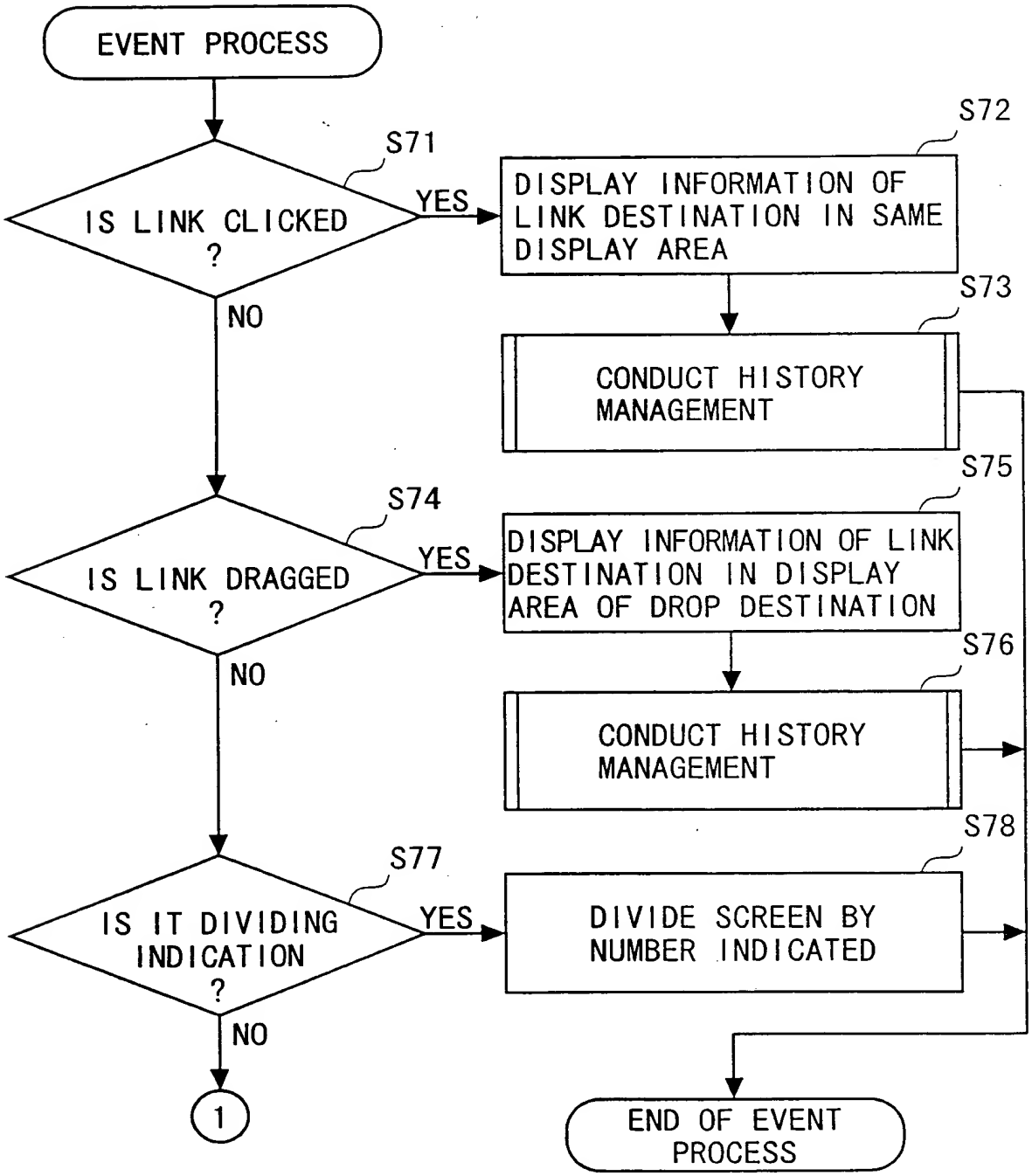

EVENT PROCESS
S71
IS LINK CLICKED ?
YES
NO
S72
DISPLAY INFORMATION OF LINK DESTINATION IN SAME DISPLAY AREA
S73
CONDUCT HISTORY MANAGEMENT
S74
IS LINK DRAGGED ?
YES
NO
S75
DISPLAY INFORMATION OF LINK DESTINATION IN DISPLAY AREA OF DROP DESTINATION
S76
CONDUCT HISTORY MANAGEMENT
S77
IS IT DIVIDING INDICATION ?
YES
NO
S78
DIVIDE SCREEN BY NUMBER INDICATED
1
END OF EVENT PROCESS

FIG. 11

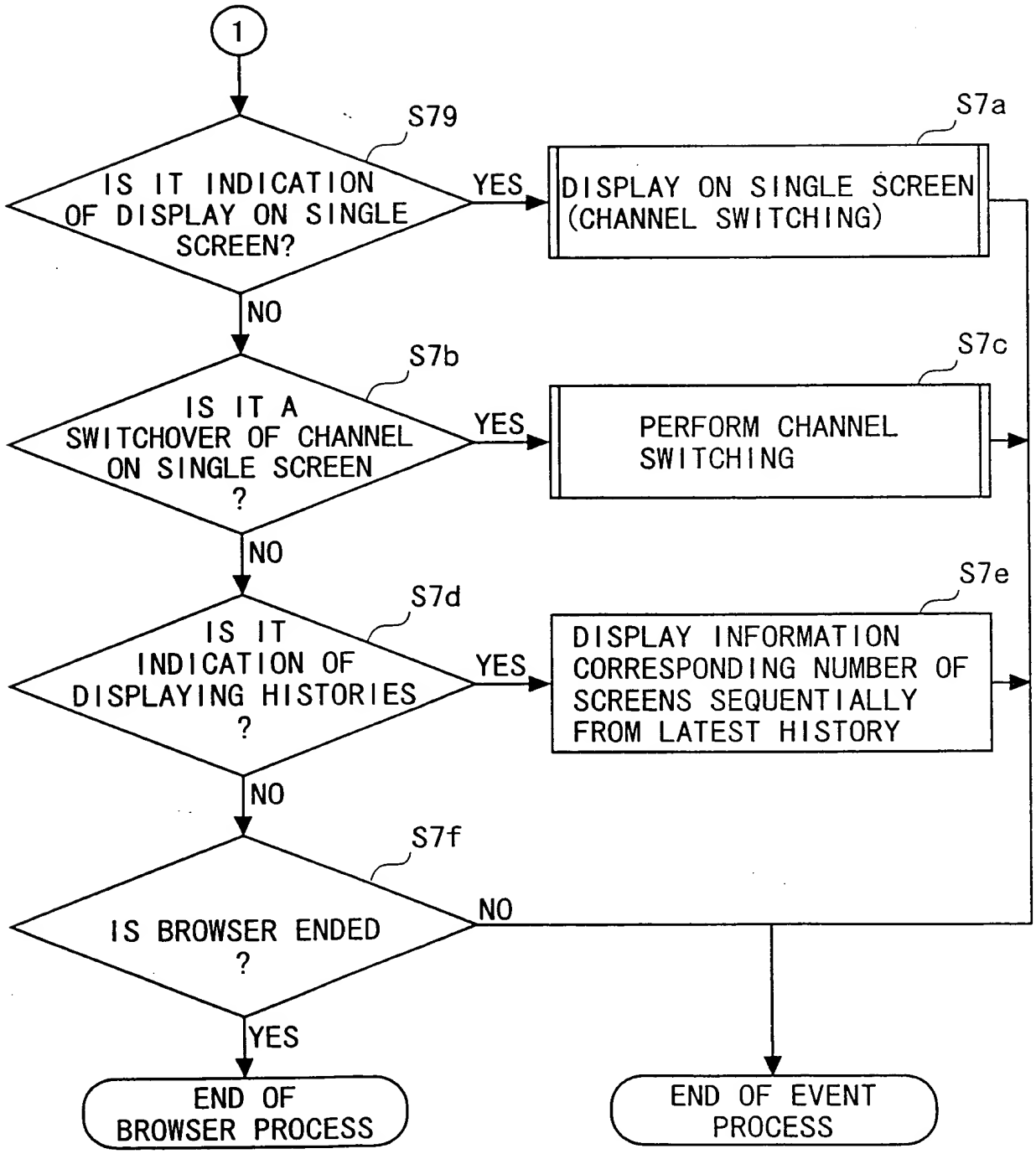

1
S79
IS IT INDICATION OF DISPLAY ON SINGLE SCREEN?
YES
S7a
DISPLAY ON SINGLE SCREEN (CHANNEL SWITCHING)
NO
S7b
IS IT A SWITCHOVER OF CHANNEL ON SINGLE SCREEN ?
YES
S7c
PERFORM CHANNEL SWITCHING
NO
S7d
IS IT INDICATION OF DISPLAYING HISTORIES ?
YES
S7e
DISPLAY INFORMATION CORRESPONDING NUMBER OF SCREENS SEQUENTIALLY FROM LATEST HISTORY
NO
S7f
IS BROWSER ENDED ?
NO
YES
END OF BROWSER PROCESS
END OF EVENT PROCESS

FIG. 12

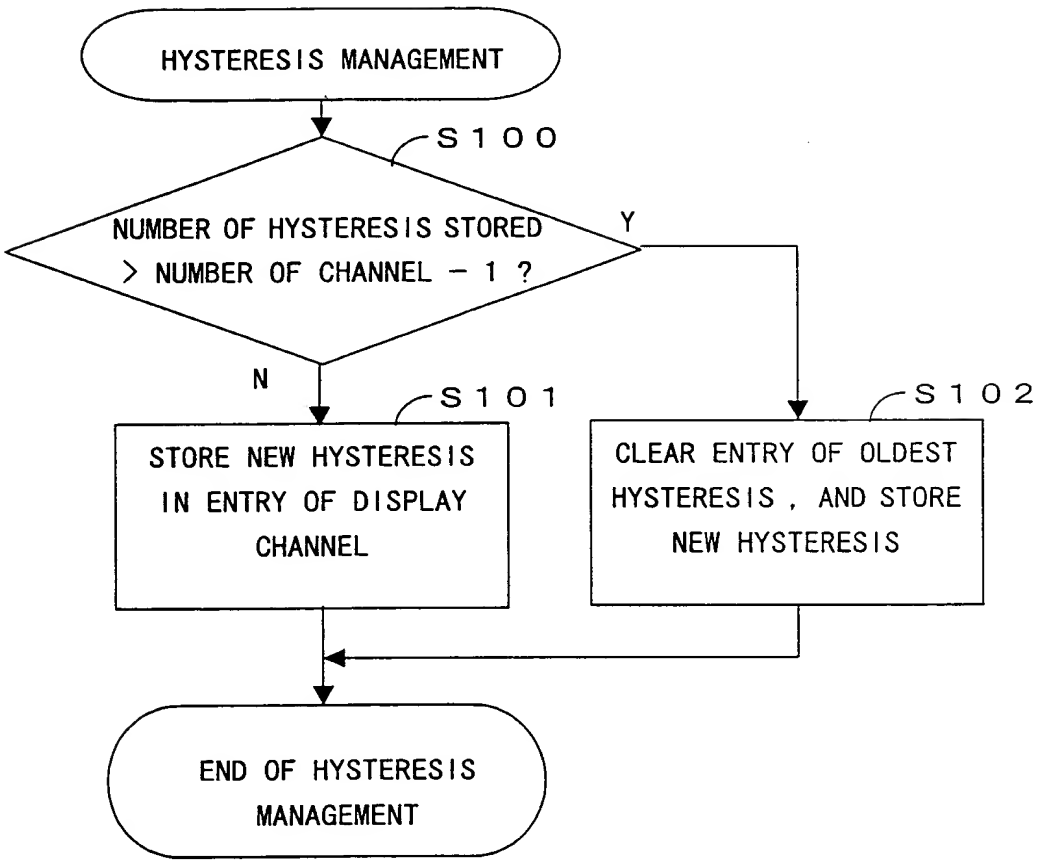
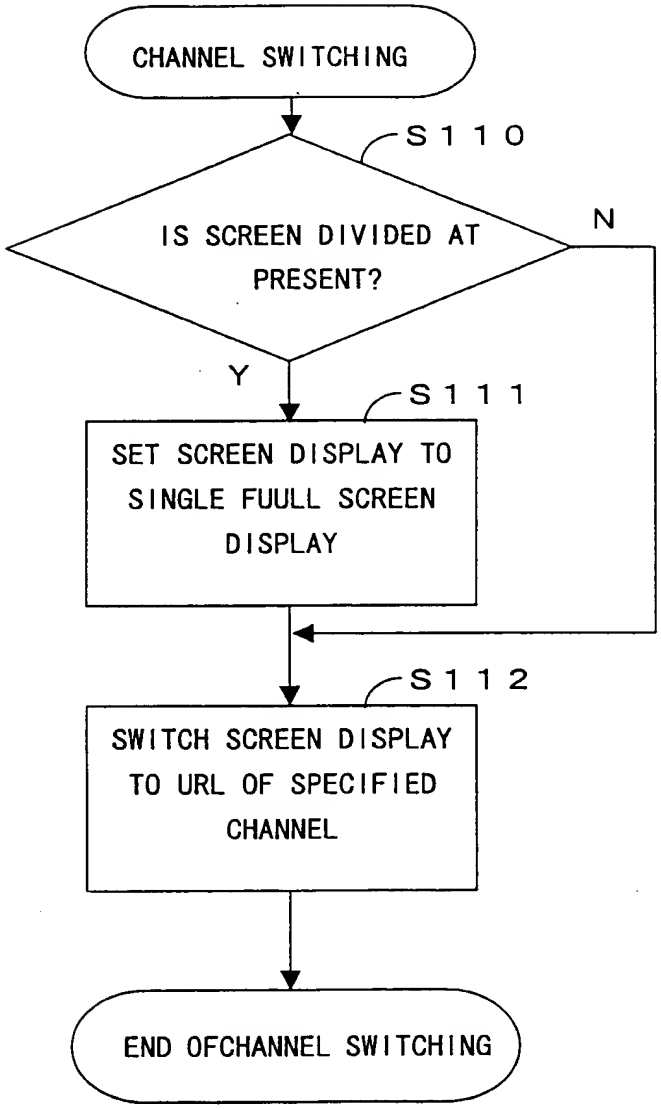

HYSTERESIS MANAGEMENT
S100
NUMBER OF HYSTERESIS STORED > NUMBER OF CHANNEL − 1 ?
Y
N
S101
STORE NEW HYSTERESIS IN ENTRY OF DISPLAY CHANNEL
S102
CLEAR ENTRY OF OLDEST HYSTERESIS , AND STORE NEW HYSTERESIS
END OF HYSTERESIS MANAGEMENT

FIG. 13



EFS ID: 2805470
Application No: 10/576,470

FIG. 14

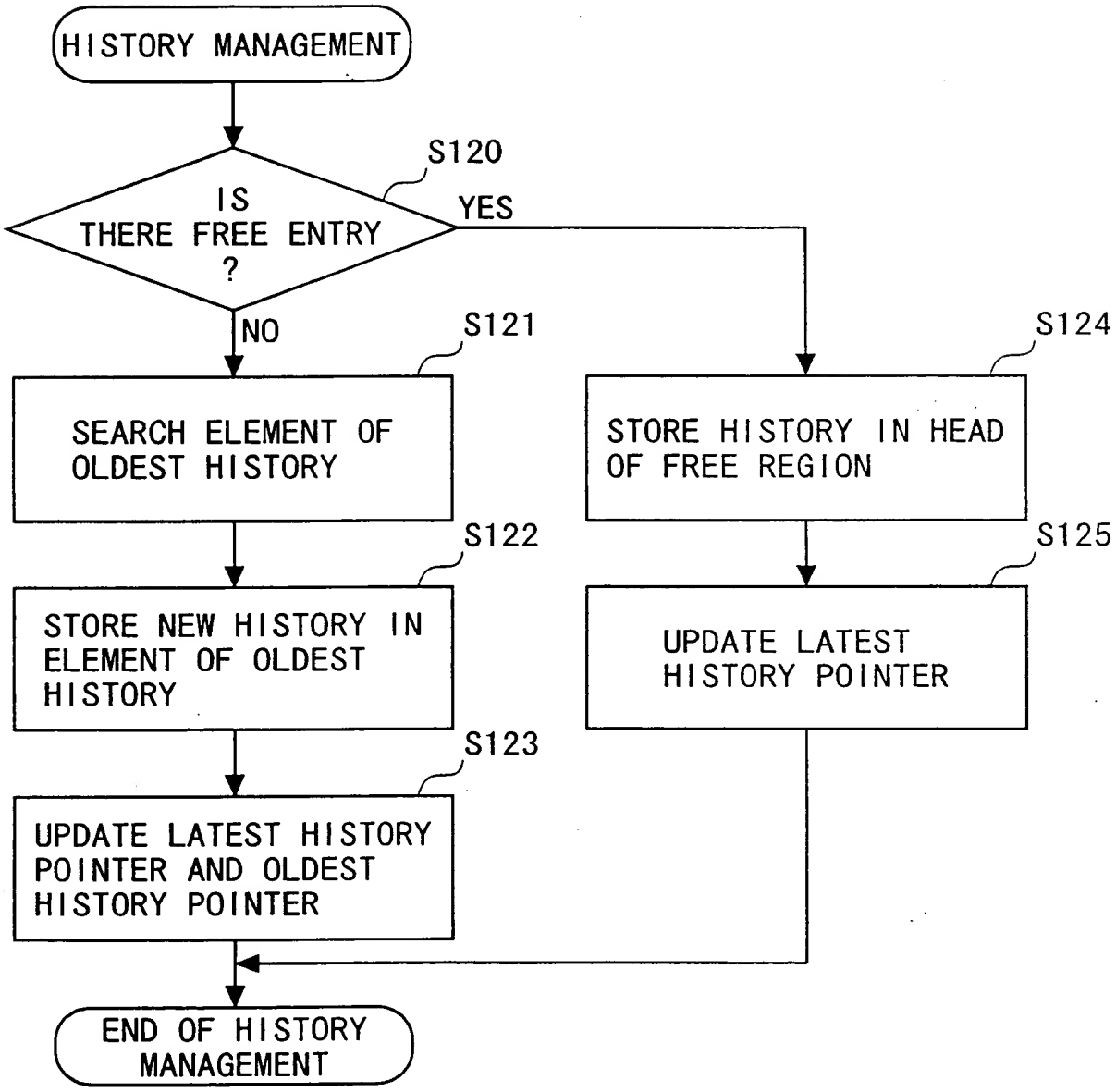

HISTORY MANAGEMENT
S120
IS THERE FREE ENTRY ?
YES
NO
S121
SEARCH ELEMENT OF OLDEST HISTORY
S122
STORE NEW HISTORY IN ELEMENT OF OLDEST HISTORY
S123
UPDATE LATEST HISTORY POINTER AND OLDEST HISTORY POINTER
S124
STORE HISTORY IN HEAD OF FREE REGION
S125
UPDATE LATEST HISTORY POINTER
END OF HISTORY MANAGEMENT

FIG. 15

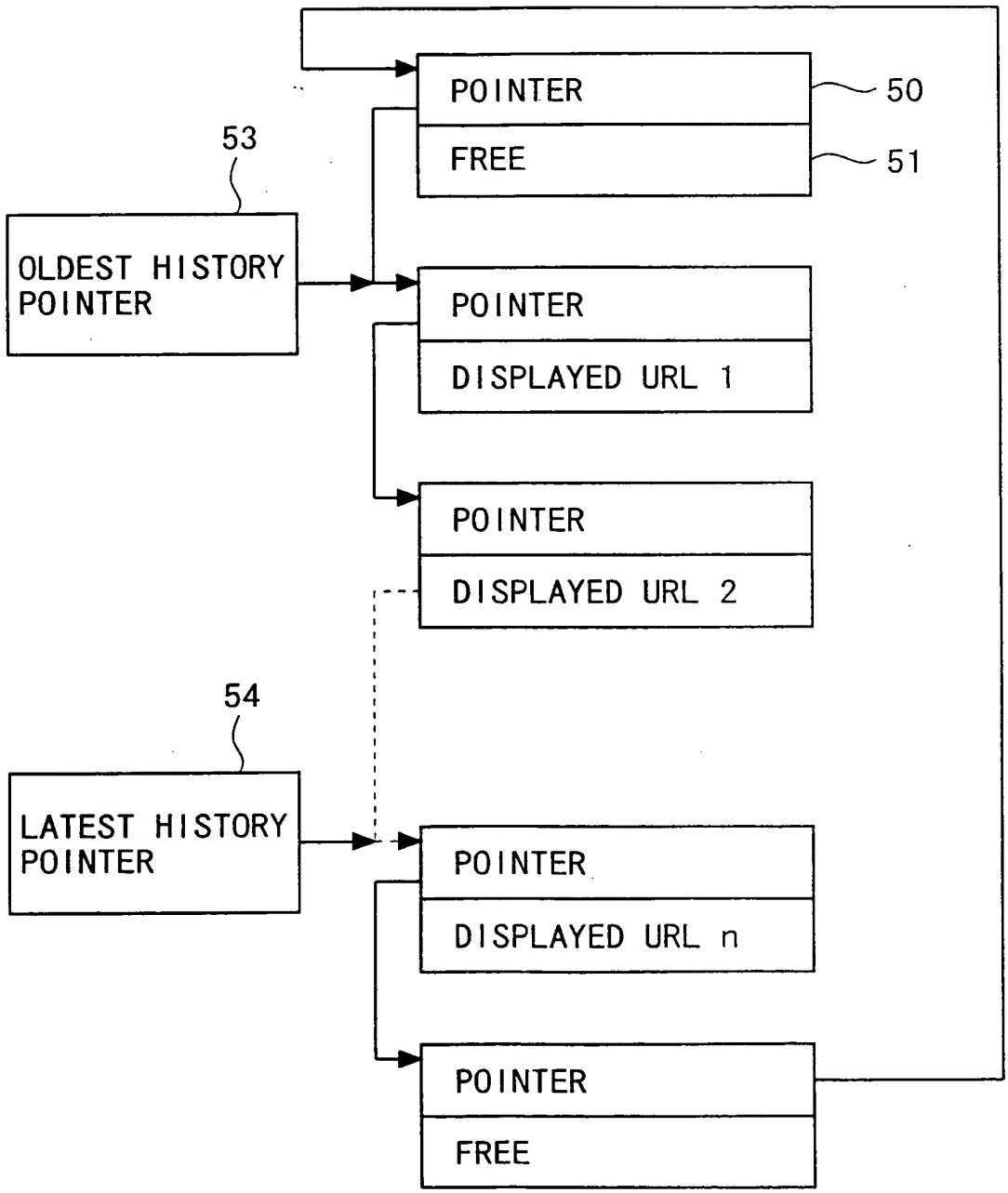

POINTER
50
FREE
51
53
OLDEST HISTORY POINTER
POINTER
DISPLAYED URL 1
POINTER
DISPLAYED URL 2
54
LATEST HISTORY POINTER
POINTER
DISPLAYED URL n
POINTER
FREE

FIG. 16

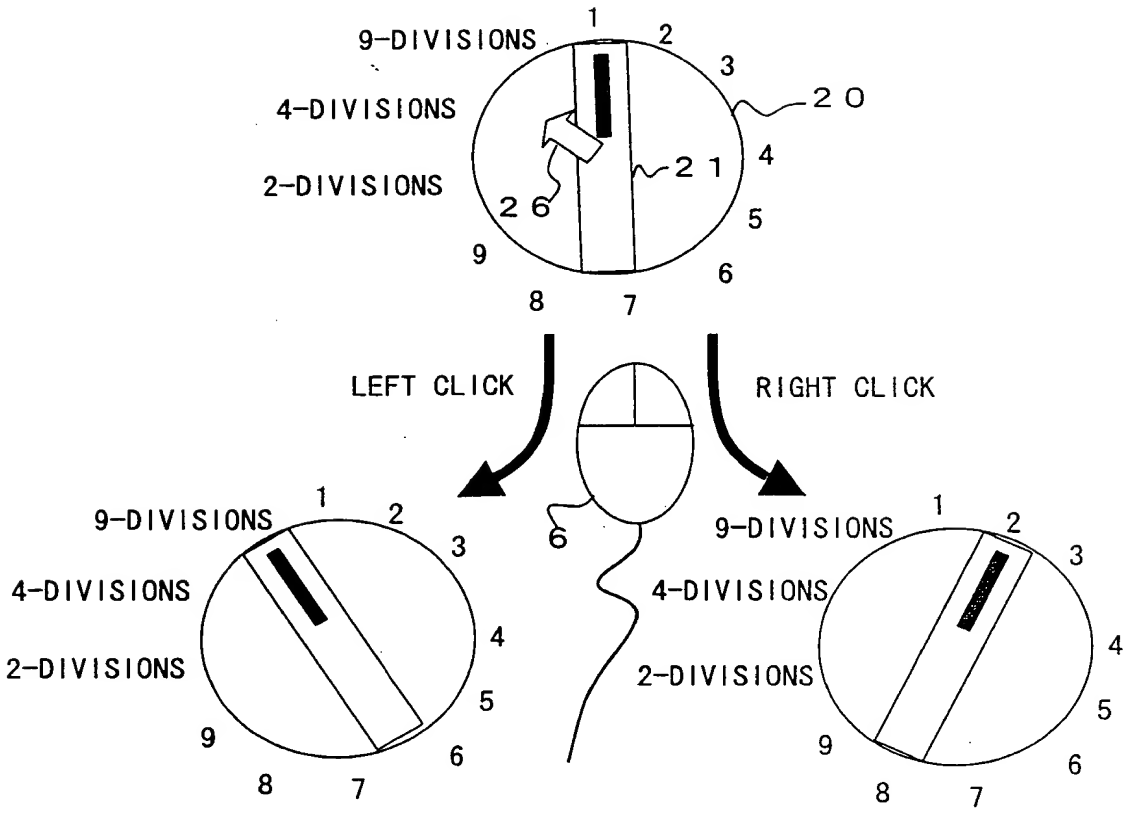

9-DIVISIONS
4-DIVISIONS
2-DIVISIONS
1
2
3
4
5
6
7
8
9
20
21
26
LEFT CLICK
RIGHT CLICK
6

FIG. 17

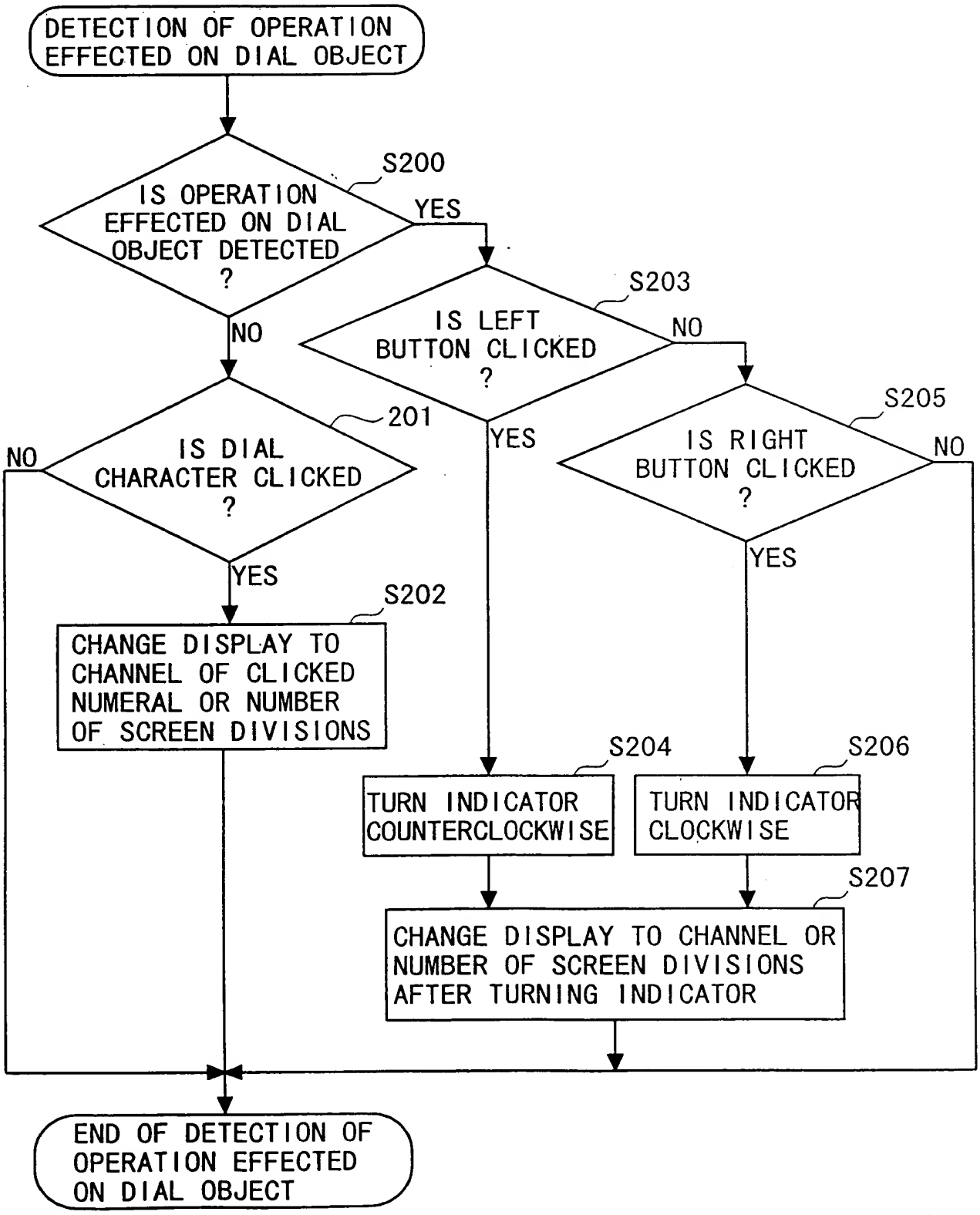

DETECTION OF OPERATION EFFECTED ON DIAL OBJECT
S200
IS OPERATION EFFECTED ON DIAL OBJECT DETECTED ?
YES
NO
S203
IS LEFT BUTTON CLICKED ?
NO
YES
S205
IS RIGHT BUTTON CLICKED ?
NO
YES
201
IS DIAL CHARACTER CLICKED ?
NO
YES
S202
CHANGE DISPLAY TO CHANNEL OF CLICKED NUMERAL OR NUMBER OF SCREEN DIVISIONS
S204
TURN INDICATOR COUNTERCLOCKWISE
S206
TURN INDICATOR CLOCKWISE
S207
CHANGE DISPLAY TO CHANNEL OR NUMBER OF SCREEN DIVISIONS AFTER TURNING INDICATOR
END OF DETECTION OF OPERATION EFFECTED ON DIAL OBJECT

FIG. 18

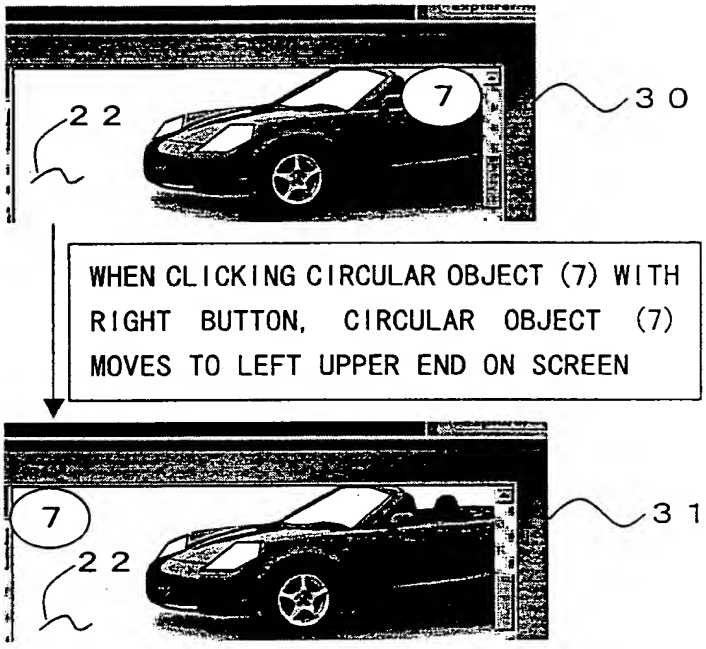

7
30
22
WHEN CLICKING CIRCULAR OBJECT (7) WITH RIGHT BUTTON, CIRCULAR OBJECT (7) MOVES TO LEFT UPPER END ON SCREEN
7
31
22

FIG. 19

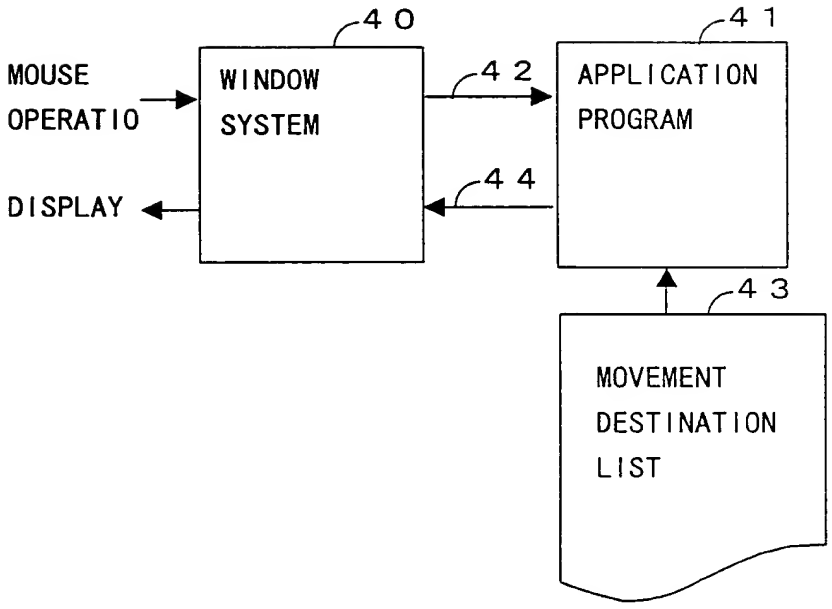

40
41
MOUSE
OPERATIO
WINDOW
SYSTEM
42
APPLICATION
PROGRAM
DISPLAY
44
43
MOVEMENT
DESTINATION
LIST

FIG.20

PRESENT POSITION	MOVED POSITION	ORDER OF MOVEMENT
1	LEFT UPPER END	1
	RIGHT UPPER END	2
	LEFT LOWER END	3
	RIGHT LOWER END	4
	CENTER	5
	LEFT MIDDLE END	6
	RIGHT MIDDLE END	7
	MIDDLE UPPER END	8
	MIDDLE LOWER END	9

EPO - DG 1 20.04.99 4.60

FIG. 21

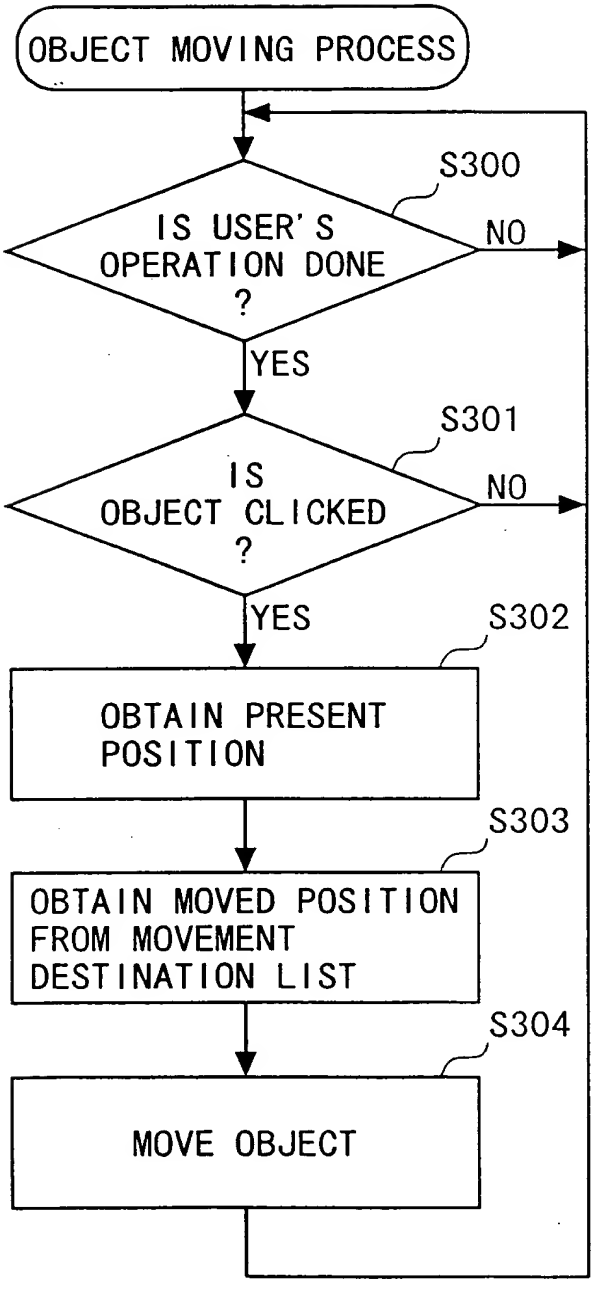

OBJECT MOVING PROCESS
S300
IS USER'S OPERATION DONE ?
NO
YES
S301
IS OBJECT CLICKED ?
NO
YES
S302
OBTAIN PRESENT POSITION
S303
OBTAIN MOVED POSITION FROM MOVEMENT DESTINATION LIST
S304
MOVE OBJECT

FIG. 22

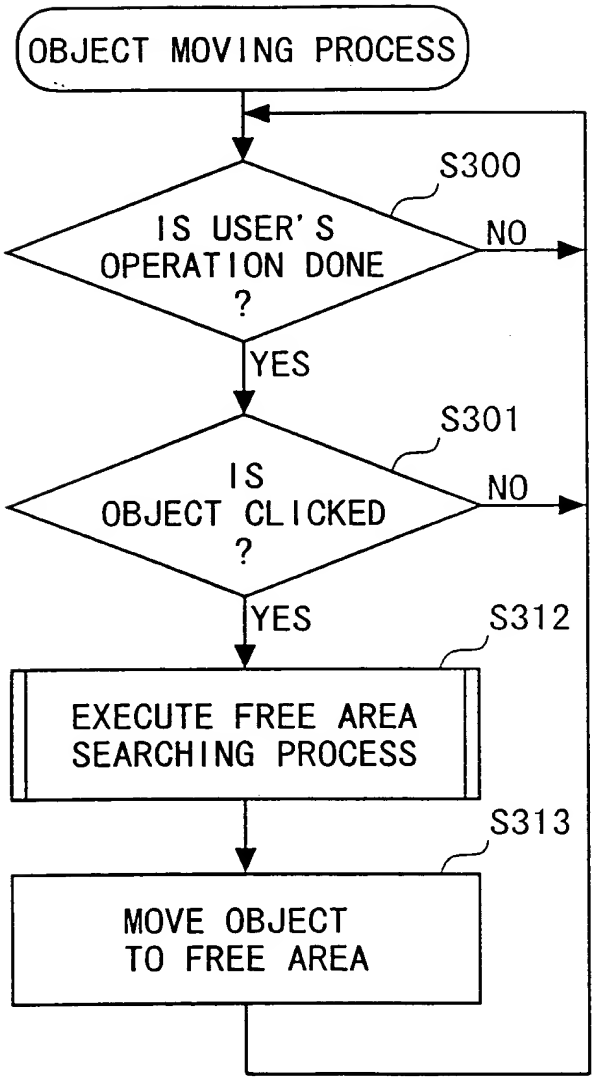

OBJECT MOVING PROCESS
S300
IS USER'S OPERATION DONE ?
NO
YES
S301
IS OBJECT CLICKED ?
NO
YES
S312
EXECUTE FREE AREA SEARCHING PROCESS
S313
MOVE OBJECT TO FREE AREA

FIG. 23

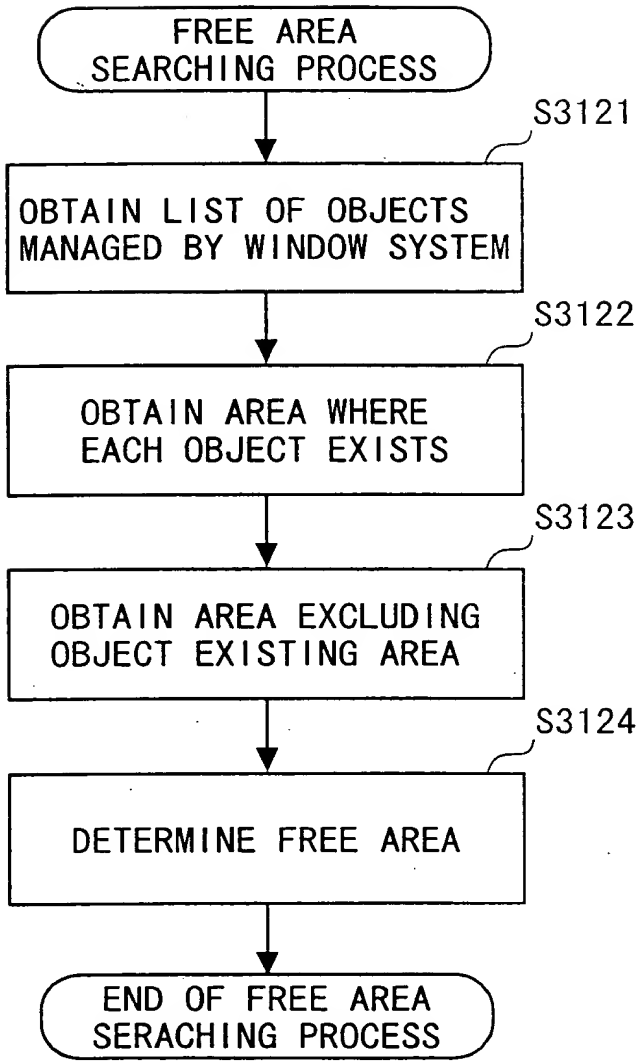

FREE AREA SEARCHING PROCESS
S3121
OBTAIN LIST OF OBJECTS MANAGED BY WINDOW SYSTEM
S3122
OBTAIN AREA WHERE EACH OBJECT EXISTS
S3123
OBTAIN AREA EXCLUDING OBJECT EXISTING AREA
S3124
DETERMINE FREE AREA
END OF FREE AREA SERACHING PROCESS

FIG. 24

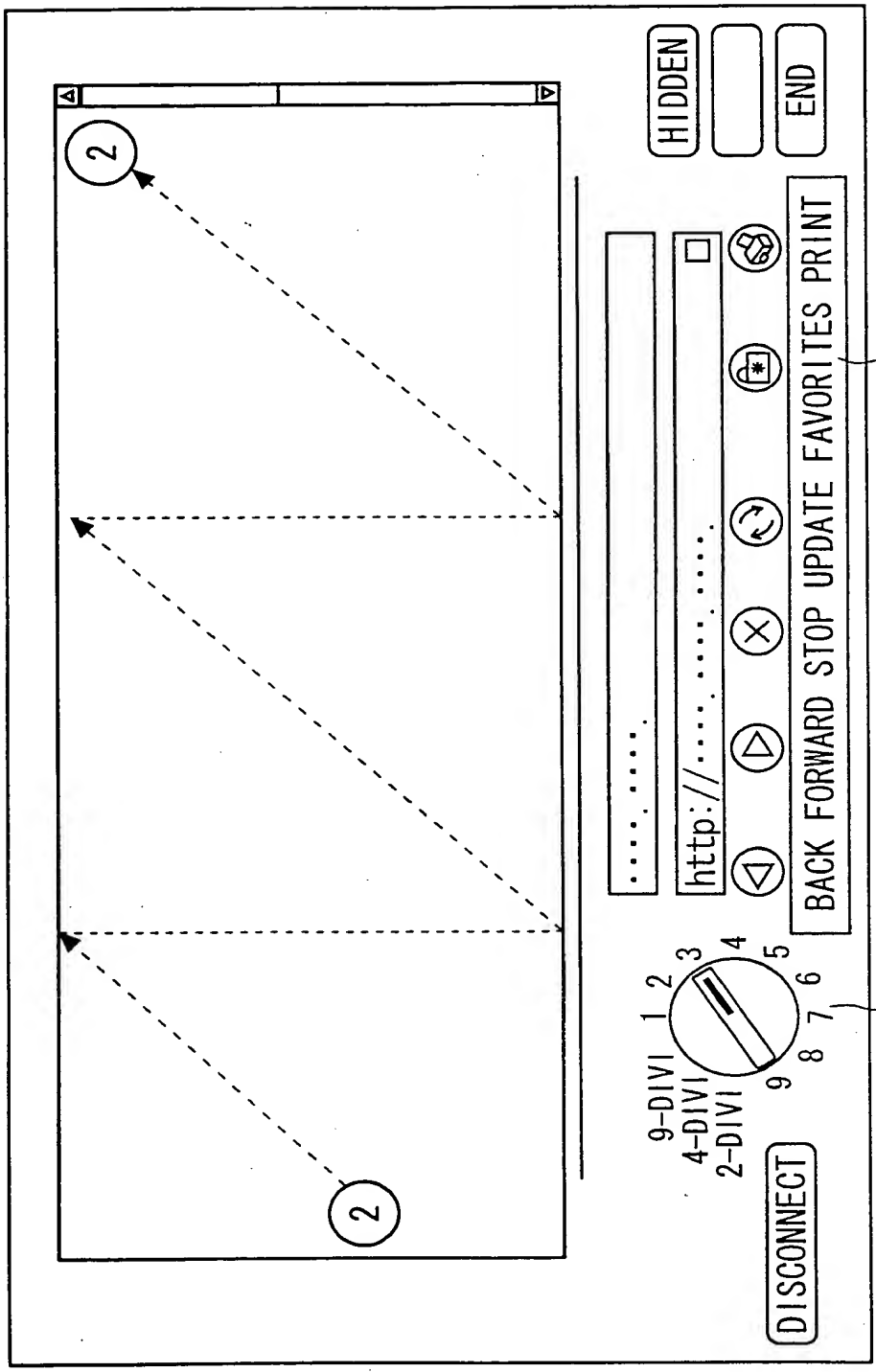

2
2
HIDDEN
END
http://.....
BACK FORWARD STOP UPDATE FAVORITES PRINT
24
1 2 3 4 5 6 7 8 9
9-DIVI
4-DIVI
2-DIVI
20
DISCONNECT

FIG. 25

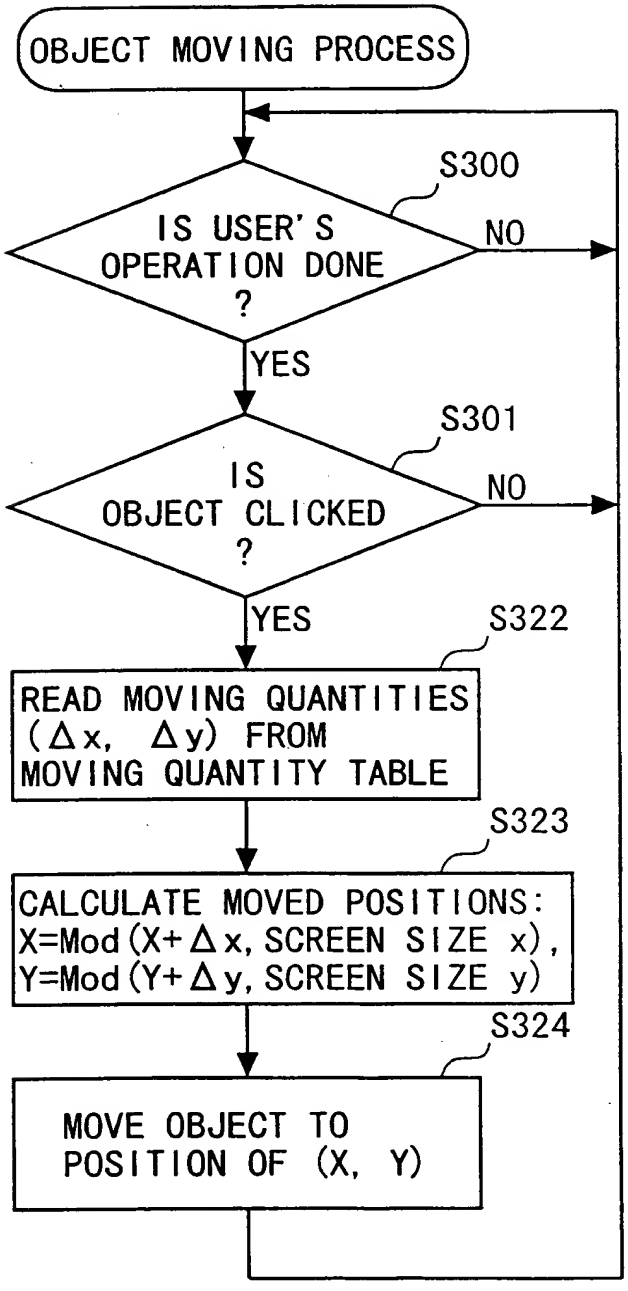

OBJECT MOVING PROCESS
S300
IS USER'S OPERATION DONE ?
NO
YES
S301
IS OBJECT CLICKED ?
NO
YES
S322
READ MOVING QUANTITIES (Δx, Δy) FROM MOVING QUANTITY TABLE
S323
CALCULATE MOVED POSITIONS:
X=Mod(X+Δx, SCREEN SIZE x),
Y=Mod(Y+Δy, SCREEN SIZE y)
S324
MOVE OBJECT TO POSITION OF (X, Y)

FIG.26

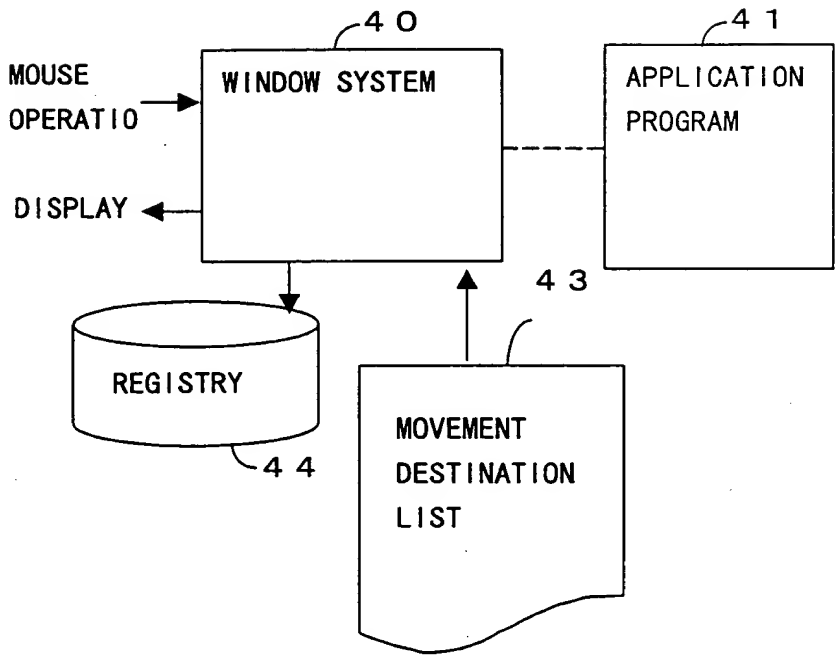
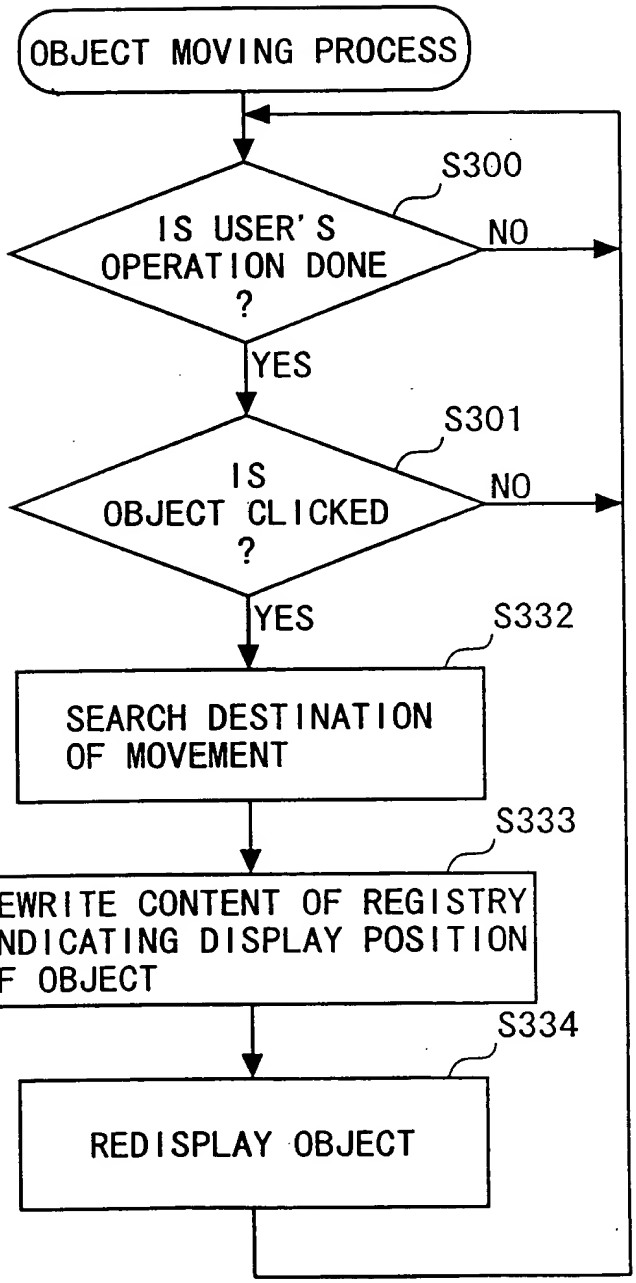

40
41
MOUSE
OPERATIO
WINDOW SYSTEM
APPLICATION
PROGRAM
DISPLAY
43
REGISTRY
MOVEMENT
DESTINATION
LIST
44

FIG. 27


OBJECT MOVING PROCESS
S300
IS USER'S OPERATION DONE ?
NO
YES
S301
IS OBJECT CLICKED ?
NO
YES
S332
SEARCH DESTINATION OF MOVEMENT
S333
REWRITE CONTENT OF REGISTRY INDICATING DISPLAY POSITION OF OBJECT
S334
REDISPLAY OBJECT